| SUBSTITUTE | <b>FORM</b> | PTO-14 | 49 |
|------------|-------------|--------|----|
| (MODIFIED) |             |        |    |

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 2500-2518

SERIAL NO.: 09/966,800

APPLICANT:

Kenneth FRANCO et al.

FILING DATE:

GROUP:

September 25, 2001

3762

(37 CFR 1.98(b))

(37 CFR 1.98(b))

INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

|                      | 1 24        |                     | U.S. PAT      | TENT DOCUMENTS  |       |          |                                  |
|----------------------|-------------|---------------------|---------------|-----------------|-------|----------|----------------------------------|
| EXAMINER<br>INITIALS | CITE<br>NO. | PATENT<br>NUMBER    | ISSUE<br>DATE | PATENTEE        | CLASS | SUBCLASS | FILING DATE<br>IF<br>APPROPRIATI |
| MB                   | AA          | Ser. No. 09/649,337 |               | Wallace et al.  |       |          | 8/28/00                          |
| 01                   | AB          | Ser. No. 09/883,138 |               | Trollsas et al. |       |          | 6/15/01                          |
|                      | AC          | 3,620,218           | 11/16/71      | Schmitt et al.  |       |          |                                  |
|                      | AD          | 3,683,926           | 8/15/72       | Suzuki          |       | 30       |                                  |
|                      | AE          | 3,949,073           | 4/6/76        | Daniels et al.  |       |          |                                  |
|                      | AF          | 4,179,337           | 12/18/97      | Davis et al.    |       |          |                                  |
|                      | AG          | 4,424,208           | 4,424,208     | Wallace et al.  |       |          |                                  |
|                      | АН          | 4,488,911           | 12/18/84      | Luck et al.     |       |          |                                  |
|                      | AI          | 4,557,764           | 12/10/85      | Chu             |       |          |                                  |
|                      | AJ          | 4,582,640           | 4/15/86       | Smestad et al.  |       |          |                                  |
|                      | AK          | 4,642,117           | 2/10/87       | Nguyen et al.   |       |          | :                                |
|                      | AL          | 4,689,399           | 8/25/87       | Chu             |       |          |                                  |
|                      | AM          | 4,690,684           | 9/1/87        | McGreevy et al. |       |          |                                  |
|                      | AN          | 5,162,430           | 11/10/92      | Rhee et al.     |       |          |                                  |
|                      | AO          | 5,264,214           | 11/23/93      | Rhee et al.     |       |          |                                  |
|                      | AP          | 5,292,802           | 3/8/94        | Rhee et al.     |       |          |                                  |
|                      | AQ          | 5,304,595           | 4/19/94       | Rhee et al.     |       |          |                                  |
|                      | AR          | 5,306,500           | 4/26/94       | Rhee et al.     |       |          |                                  |
|                      | AS          | 5,308,889           | 5/3/94        | Rhee et al.     |       |          |                                  |
|                      | AT          | 5,324,775           | 6/28/94       | Rhee et al.     |       |          |                                  |
| Ones                 | AU          | 5,328,955           | 7/12/94       | Rhee et al.     |       |          | ·                                |

EXAMINER SIGNATURE:

Josean & Bayler

DATE CONSIDERED: 4

4/2/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**SUBSTITUTE FORM PTO-1449** (MODIFIED)

(37 CFR 1.98(b))

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 2500-2518

**SERIAL NO.:** 09/966,800

INFORMATION DISCLOSURE STATEMENT BY APPLICAN

(Use several sheets if necessary)

APPLICANT:

Kenneth FRANCO et al.

FILING DATE:

**GROUP:** 

September 25, 2001

3762

|                      |             |                  | U.S. PAT      | ENT  | DOCUMENTS       |          |           |        |                        |
|----------------------|-------------|------------------|---------------|------|-----------------|----------|-----------|--------|------------------------|
| EXAMINER<br>INITIALS | CITE<br>NO. | PATENT<br>NUMBER | ISSUE<br>DATE |      | PATENTEE        | CLASS    | SUBCLASS  |        | G DATE<br>IF<br>PRIATI |
| AUS                  | AV          | 5,376,375        | 12/27/94      |      | Rhee et al.     |          |           |        |                        |
| V                    | AW          | 5,413,791        | 5/9/95        |      | Rhee et al.     |          |           |        |                        |
|                      | AX          | 5,446,091        | 8/29/95       |      | Rhee et al.     |          |           |        |                        |
|                      | AY          | 5,470,911        | 11/28/95      |      | Rhee et al.     |          |           |        |                        |
|                      | AZ          | 5,476,666        | 12/19/95      |      | Rhee et al.     |          |           |        |                        |
|                      | BA          | 5,489,297        | 2/6/96        |      | Duran           | <u>-</u> |           |        |                        |
|                      | BB          | 5,510,121        | 4/23/96       |      | Rhee et al.     |          | v         | di     |                        |
|                      | ВС          | 5,510,418        | 4/23/96       |      | Rhee et al.     |          |           |        |                        |
|                      | BD          | 5,523,348        | 6/4/96        |      | Rhee et al.     |          |           |        |                        |
|                      | BE          | 5,543,411        | 8/6/96        |      | Swindell et al. |          |           |        |                        |
|                      | BF          | 5,550,188        | 8/27/96       |      | Rhee et al.     |          |           |        |                        |
|                      | BG          | 5,565,519        | 10/15/96      |      | Rhee et al.     |          |           |        |                        |
|                      | ВН          | 5,583,114        | 12/10/96      |      | Barrows et al.  |          |           |        |                        |
|                      | BI          | 5,653,744        | 8/5/97        |      | Khouri          |          |           |        |                        |
|                      | ВЈ          | 5,752,974        | 5/19/98       |      | Rhee et al.     |          |           |        |                        |
|                      | ВК          | 5,762,625        | 6/9/98        |      | Igaki           |          |           |        |                        |
| mes                  | BL          | 6,264,690        | 7/24/01       |      | Von Oepen       |          |           | 8/2    | 4/99                   |
| U                    |             |                  | FOREIGN P     | PATE | NT DOCUMENT     |          |           |        |                        |
| EXAMINER             | CITE        | DOCUMENT         | PUBLICATIO    | ON   | COUNTRY OR      | CI ACC   | CLIDCLACC | TRANSI | LATIO                  |
| INITIALS             | NO.         | NUMBER           | DATE          |      | PATENT OFFICE   | CLASS    | SUBCLASS  | YES    | NO                     |
| MR                   | ВМ          | WO 97/22371      | 6/26/97       |      | PCT             |          |           |        |                        |

**EXAMINER SIGNATURE:** 

C Briti Mossian

DATE CONSIDERED: 4/2/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449 (MODIFIED)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.: 2500-2518

SERIAL NO.: 09/966,800

APPLICANT:

Kenneth FRANCO et al.

FILING DATE:

September 25, 2001

GROUP

(37 CFR 1.98(b))

|                      |             | Man   |
|----------------------|-------------|---|
|                      |             | OTHER DOCUMENTS PATENT LITERATURE DOCUMENTS   |
| EXAMINER<br>INITIALS | CITE<br>NO. | INCLUDE NAME OF AUTHOR, TITLE OF ARTICLE (IF APPROPRIATE), TITLE OF PUBLICATION, DATE, PAGE(S), VOLUME-ISSUE NUMBER(S), PUBLISHER, AND PLACE OF PUBLICATION   |
| Jus                  | BN          | Abuchowski et al. (1977), "Alteration of Immunological Properties of Bovine Serum Albumin by Covalent Attachment of Polyethylene Glycol," <i>The Journal of Biological Chemistry</i> 252(11):3578-3581.   |
|                      | ВО          | Abuchowski et al. (1981), "Soluble Polymer-Encyme Adducts," <i>Enzymes as Drugs</i> , Chapter 13, pp. 367-383, John Wiley & Sons, New York NY.  |
|                      | BP          | Abuchowski et al. (1984), "Cancer Therapy with Chemically Modified Enzymes. I. Antitumor Properties of Polyethylene Clycol-Asparaginase Conjugates," <i>Cancer Biochem. Biophys.</i> 7:175-186.   |
|                      | BQ          | Beauchamp et al. (1983), "A New Procedure for the Synthesis of Polyethylene Glycol-Protein Adducts; Effects on Function, Receptor Recognition, and Clearance of Superoxide Dismutase, Lactoferrin, and $\alpha_2$ -Macroglobulin Analytical Biochemistry 131:25-33. |
|                      | BR          | Berger et al. (1988), "Preparation of Polyethylene Glycol-Tissue Plasminogen Activator Adducts that Retain Functional Activity: Characteristics and Behavior in Three Animal Species," <i>Blood</i> 71(6):1641-1647.  |
|                      | BS          | Dreborg et al. (1990), "Immunotherapy with Monomethoxypolyethylene Glycol Modified Allergens," Critical Reviews in Therapeutic Drug Carrier Systems 6(4):315-365.   |
|                      | ВТ          | Ellis et al. (1990), "The Ideal Tissue Adhesive in Facial Plastic and Reconstructive Surgery," <i>The Journal of Otolaryngology</i> 19(1):68-72.  |
|                      | BU          | Larwood et al. (1984), "Synthesis, Characterization, and In Vivo Disposition of Iodinatable Polyethylene Glycol Derivatives: Differences In Vivo as a Function of Chain Length," <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> 21(7):603-614.       |
|                      | BV /        | Leach et al. (1990), "Reduction of Postoperative Adhesions in the Rate Uterine Horn Model with Poloxamer 407," Am. J. Obstet. Gynecol. 162(5):1317-1319.  |
|                      | BW          | Mutter et al. (1979), "The Liquid-Phase Method for Peptide Synthesis," <i>The Peptides, Chapter 2</i> , pp. 285-332, Academic, New York, NY.  |
|                      | BX          | Ouchi et al. (1987), "Syntheses of 5-Fluorouracil-Terminated Monomethoxypoly(Ethylene Glycol)s, Their Hydrolysis Behavior, and Their Antitumor Activities," <i>J. Macromol. SciChem.</i> <u>A24</u> (9):1011-1032.  |
|                      | BY          | Ulbrich et al. (1986), "Poly(Ethylene Glycol)s Containing Enzymatically Degradable Bonds," <i>Makromol. Chem.</i> <u>187</u> :1131-1144.  |
| gus                  | BZ          | Veronese et al. (1985), "Surface Modification of Proteins, Activation of Monomethoxy-Polyethylene Glycols by Phenylchloroformates and Modification of Ribonuclease and Superoxide Dismutase," <i>Applied Biochemistry and Biotechnology</i> 11:141-152.             |

**EXAMINER SIGNATURE:** 

Mossian & Bastin

DATE CONSIDERED:

2 03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**SUBSTITUTE FORM PTO-1449** (MODIFIED)

(37 CFR 1.98(b))

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEM

ATTY. DOCKET NO .: 2500-2518

SERIAL NO.:

09/966,800

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT:

Kenneth FRANCO et al.

FILING DATE:

GROUP:

September 25, 2001

3762

|                 |        |             | OTHER DOCUMENTS — NONPATENT LITERATURE DOCUMENTS  |
|-----------------|--------|-------------|---|
| EXAMI<br>INITIA |        | CITE<br>NO. | INCLUDE NAME OF AUTHOR, TITLE OF ARTICLE (IF APPROPRIATE), TITLE OF PUBLICATION, DATE, PAGE(S), VOLUME-ISSUE NUMBER(S), PUBLISHER, AND PLACE OF PUBLICATION   |
| he              | 3      | CA          | Zalipsky et al. (1983), "Attachment of Drugs to Polyethylene Glycols," Eur. Polym. J. 19(12):1177-1183.   |
|                 |        | СВ          | Zalipsky et al. (1987), "A Convenient General Method for Synthesis of N <sup>α</sup> - or N <sup>ω</sup> -Dithiasuccinoyl (Dts) Amino Acids and Dipeptides: Application of Polyethylene Glycol as a Carrier for Functional Purification," <i>Int. J. Peptide Protein Res.</i> 30:740-783. |
| Ale             | ر<br>م | СС          | Zalipsky et al. (1991), "Succinimidyl Carbonates of Polyethylene Glycol," Polymerić Drug and Drug Delivery Systems, Chapter 10, pp. 91-100.   |
| V               |        |             | TED TEST ROOM   |

**EXAMINER SIGNATURE:** 

R Baylin

DATE CONSIDERED: 4203

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

|      |    | ച   |
|------|----|-----|
| Yann | CF | P S |
|      |    |     |

ONICINILLY Complete if Known Substitute for form 1449A/PTO **Application Number** -09/966,800 Filing Date September 25, 2001 INFORMATION DISCLOSURE Kenneth FRANCO et al. First Named Inventor STATEMENT BY APPLICANT 3762 Art Unit ר אטנ (use as many sheets as necessary) Examiner Name Unassigned Attorney Docket Number 2500-2518

|   |                    |             |              | The Property                      |  |       |          |                            |
|---|--------------------|-------------|--------------|-----------------------------------|--|-------|----------|----------------------------|
| ſ | th.                |             |              | U.S. PATENT                       | DOCUMENTS  |       |          |                            |
| - | Examiner Initials* | Cite<br>No. | Document No. | Issue Date or<br>Publication Date | Name of Patentee or<br>Applicant of Cited Document | Class | Subclass | Filing Date if Appropriate |
| ľ |                    | CD          | 5,180,392    | 1/19/93                           | Skeie et al.                                       |       |          |                            |
| ľ |                    | CE          | 5,527,324    | 6/18/96                           | Krantz et al.                                      |       |          |                            |
| 1 |                    | CF          | 6.056.762    | 5/2/00                            | Nash et al.  |       |          |                            |

Sheet

|                       |             | FOREIG                      | N PATENT DOCUME  | ENTS           |       |          |   |
|-----------------------|-------------|-----------------------------|------------------|----------------|-------|----------|---|
| Examiner<br>Initials* | Cite<br>No. | Foreign Patent Document No. | Publication Date | Country        | Class | Subclass | Т |
|                       | eG          | WO 96/29370                 | 9/26/96          | PCT            |       |          | L |
|                       | CH          | EP 405429 A2                | 1/2/91           | Europe         |       |          |   |
|                       | CI          | GB 2164562 A                | 3/26/86          | United Kingdom |       |          |   |

Date Examiner Considered Signature

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include ppy of this form with next communication to applicant.

I hereby certify that this correspond being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, Washington, DC 20231" on

Atty Dkt No. 2500-2518 PATENT

October 28, 2002 0/28/02 mayout & Surrid

NOV 0 8 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Kenneth FRANCO et al.

Serial No.: 09/966,800

Group Art Unit: 3762

Filing Date: September 25, 2001

Examiner: Unassigned

Title: RESORBABLE ANASTOMOSIS STENTS AND PLUGS AND THEIR USE IN

**PATIENTS** 

THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, DC 20231

Sir:

This is a Third Supplemental Information Disclosure Statement submitted for the Examiner's consideration. Applicants respectfully request that the Examiner review and make of record the references identified below.

The references listed below were cited in an International (PCT) Search Report dated July 25, 2002, for the PCT application corresponding to the above-identified U.S. patent application. A copy of the Search Report, including an indication of the purported relevance of the cited references, is enclosed. Copies of the references are also submitted herewith.

A PTO-1449 form listing the references accompanies this paper. Applicants would appreciate the Examiner's initialing and returning the form to indicate that the references have been reviewed and made of record. The references are as follows:

|    | Document No. | Issue Date or Publication Date | Name of Patentee or Applicant |
|----|--------------|--------------------------------|-------------------------------|
| 16 | 5,326,350    | 7/5/94                         | Li                            |

| Document No. | Publication Date | Country |
|--------------|------------------|---------|
| WO 93/25255  | 12/23/93         | PCT     |
| WO 97/41778  | 11/13/97         | PCT     |

Josna l'Egyli

4/2/03